8-3-05

PATENT COOPERATION TREATY





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INTERNATIONAL PREI

International application No.
T/EP2003/013917

I. Basis	of the r	enort	
		to the elements of the international application:*	
		ernational application as originally filed	
	pages	scription:	
j	pages	1, 3-7	, as originally filed
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	the cla	ims:	
	pages		, as originally filed
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	pages	1-16	, filed with the demand
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	pages	1/1	, as originally filed
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	_	ort has been established as if (some of) the amendments had not been made, ne disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
and 70.	. <i>17</i>).	neets which have been furnished to the receiving Office in response to an inv as "originally filed" and are not annexed to this report since they do	not contain amendments (Rule 70.16
* Any rep	olacemen	nt sheet containing such amendments must be referred to under item 1 and an	nexed to this report.

INTERNATIONAL PRELEWNARY EXAMINATION REPORT

International application No. PCT 03/13917

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

. Statement			
Novelty (N)	Claims	1-16	YES
	Claims		NO
Inventive step (IS)	Claims	1-16	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims		NO

2. Citations and explanations

WO 98/54030 (document D6), which is considered to be the prior art closest to the subject matter of claim 1, discloses a multifunctional lighting device with the features specified in the preamble of independent claim 1.

The problem addressed by the present invention can be seen as that of improving the multifunctional lighting device so that when the semiconductor light source and the sensor are used at the same time the beam paths of the light and of the sensor ensure increased measuring precision.

The problem is solved by the features specified in the characterising part of claim 1, more particularly the optical systems with different emission and reception characteristics, the projection of which in a two-dimensional plane corresponds to a cylindrical two-dimensional Cartesian oval.

Optical systems with different emission and reception characteristics in multifunctional lighting devices are already known in the art (see document D11), as are Cartesian oval optical systems in lighting devices (see, for example, documents D2 and D10). However, there are no references in the cited prior art (D1, D3 to D9 and D11) to a combination of semiconductor light sources and sensor elements with Cartesian

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT 03/13917

oval optical systems that might enable a person skilled in the art to arrive at a multifunctional lighting device as specified in claim 1 without making an inventive contribution. The subject matter of independent claim 1 therefore meets the requirements of PCT Article 33(2) and (3).

Independent method claim 10 and independent use claims 12 to 16 refer back to the product according to claims 1 to 9, and therefore also meet the requirements of PCT Article 33(2) and (3).

Claims 2 to 9 and 11 are dependent on claims 1 and 10 respectively and therefore also meet the PCT requirements in respect of novelty and inventive step.

Claims 1 to 16 are industrially applicable.